

## BRUHAT BANGALORE MAHANAGARA PALIKE

## Project Division, Yelahanka Zone

Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Unit | No | L | B | D | Quantity | Rate     | Amount      |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|---|---|---|----------|----------|-------------|
| 29 | KSRRB 300-1. Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work                                                                                                                                                                                                       |      |    |   |   |   |          |          |             |
|    | Qty Recorded in EMB 1 of page 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cu.m |    |   |   |   | 346.44   | 250.00   | 86609.06    |
| 30 | KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work                             |      |    |   |   |   |          |          |             |
|    | Qty Recorded in EMB 1 of page no 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cu.m |    |   |   |   | 61.95    | 6000.000 | 371688.75   |
| 31 | Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13.cement mortar 1:6 (using available stones) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work                                                                                                                                                          |      |    |   |   |   |          |          |             |
|    | Qty Recorded in EMB 1 of page no 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cu.m |    |   |   |   | 194.03   | 5300.00  | 1028370.26  |
| 33 | KSRRB 5-11 : Providing and constructing load bearing wall with having block density not less than 1800 kg/m3 and having a minimum average compressive strength 5.00 N/mm2 confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials labour charegs, scaffolding, curing, hire charges of machineries etc., complete as per specifications. KBS No.5.4 .-do- solid concrete blocks of size 400x150x200 mm with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work                                         |      |    |   |   |   |          |          |             |
|    | Qty Recorded in Page no 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |    |   |   |   | 21       | 1150     | 24150       |
| 34 | Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggretes @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications.Specification No. KBS 4.1, 4.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work                                                                                         |      |    |   |   |   |          |          |             |
|    | Qty Recorded in EMB 1 of page no 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cu.m |    |   |   |   | 18.700   | 6100.000 | 114068.475  |
| 36 | KSRRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work                                                                                                                                                                                                                             |      |    |   |   |   |          |          |             |
|    | Qty Recorded in EMB 1 of page no 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sqm  |    |   |   |   | 83.11    | 300      | 24933       |
| 37 | Providing and laying in position plain/Reinforced cement cement concrete M20 for sub-structure/Superstructure works, with cement @ 320 kgs, 20 mm & down size graded granite metal coarse aggregate @ 0.69 cum and fine aggregates @ 0.46 cum machine mixed with super plasticisers @ 3 lts confirming to IS 9103-2008,concrete laid in layers, well compacted and providing weep holes wherever necessary. with necessary scaffolding, form work etc., including cost of labour, HOM curing etc., complete. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work |      |    |   |   |   |          |          |             |
|    | Qty Recorded in EMB 1 of page no 8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Cu.m |    |   |   |   | 27.85    | 5500.000 | 153196.3125 |

Asst. Executive Engineer  
Project Division  
Yelahanka Zone

Executive Engineer

## BRUHAT BANGALORE MAHANAGARA PALIKE

## Project Division, Yelahanka Zone

Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Unit | No | L | B | D | Quantity | Rate  | Amount  |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|---|---|---|----------|-------|---------|
| 38 | Fabricating, providing and erecting in position of MS Hot Dip Galvanized Sq. Hallow Poles of 132 x 132 Heavy gauge of length 3000mm with MS. Hot dip galvanized grill work as per approved design and drawing of chief architect. Using 12x75mm galvanized flat for alround frame and 20mm x 20mm galvanized-forged design with square for for vertical al 150mm C/C as shown in the drawing including providing forged ornamental arrow head in top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per specification including loading and unloading with cost and conveyance of all materials, labour, machinery and incidental charges for the successful completion of the work as per the direction Engineer-in-charge of the w                                                                                                                                                                                                                                                                               |      |    |   |   |   |          |       |         |
|    | Qty Recorded in EMB 1 of page no 9-10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Sqm  |    |   |   |   | 664      | 10200 | 6772800 |
| 39 | Fabricating, providing and erecting in position Hot dip galvanized Gate. Using 72 x 72 x 4.8mm Sq. G I Pipe Frame with top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanized sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot do galvanized forged ornamental design in between rods and heads at top, middle and bottom. Intermediate supports of 75x12mm and 50X6mm arch bent to hot dip galvanized flats. the work is inclusive of throughing GI, flat GI Sqm. rods, placing, welding all the joints including grinding, finishing metal patty, painting two coats enamel painting. The rate is inclusive of all materials Like G I Sq. GI Pipe, GI Forged designs etc., heavy duty hinges are made out of 75mm sold sq. block assembled with 20mm du bearing in three places for each flop. Heavy duty locking arrangement of low places including cost of labour, painting, erection charges using hoist pulley cranes with all lead and lift, loading, transportation, unloading, scaffolding charges and all other incidental charges for successful completion of the work as per directions of the Engineering charge of the work. with all lead and lift , loading and unloading and allother incidental charges etc., complete as |      |    |   |   |   |          |       |         |
|    | Qty Recorded in EMB 1 of page no 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sqm  |    |   |   |   | 3.15     | 13000 | 40950   |
| 40 | Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |    |   |   |   |          |       |         |
|    | Qty Recorded in EMB 1 of page no 12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sqm  |    |   |   |   | 1048.54  | 700   | 733978  |
| 41 | Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting ( excluding cost of earthwork and concrete) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |    |   |   |   |          |       |         |
|    | Qty Recorded in EMB 1 of page no 13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | M    |    |   |   |   | 512      | 1000  | 512000  |
| 43 | Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |    |   |   |   |          |       |         |
|    | Qty Recorded in EMB 1 of page no 14                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |    |   |   |   | 1362.12  | 400   | 544848  |



Asst. Executive Engineer  
Project Division  
Yelahanka Zone

Executive Engineer

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## Project Division, Yelahanka Zone

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| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Unit | No | L | B | D | Quantity  | Rate     | Amount      |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|---|---|---|-----------|----------|-------------|
| 59 | LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work |      |    |   |   |   |           |          |             |
|    | Qty Recorded in EMB 1 of page no 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No   |    |   |   |   | 25.00     | 47000.00 | 1175000     |
| 60 | LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008. Warranty of 5 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED source manufacturer. Suitable for A1/A2 Roads as per IS 1944 Part I & Part II. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work |      |    |   |   |   |           |          |             |
|    | Qty Recorded in EMB 1 of page no 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | No   | 6  |   |   |   | 6.00      |          |             |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |    |   |   |   | Total Qty | 6.00     | 57000.00    |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |    |   |   |   |           |          | 342000      |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |    |   |   |   |           |          | 11924591.86 |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |    |   |   |   |           | GST 12%  | 1430951.02  |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      |    |   |   |   |           | Total    | 13355542.89 |



Asst. Executive Engineer  
Project Division  
Yelahanka Zone

Executive Engineer

**BRUHAT BANGALORE MAHANAGARA PALIKE**  
Project Division, Yelahanka Zone

**Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03**

**PRE-MEASUREMENT SHEET**

17/08/2020

| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Unit | No | Length<br>(m) | Breadth<br>(m) | Depth<br>(m) | Quantity | Remarks |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|---------------|----------------|--------------|----------|---------|
| 29 | KSRRB 300-1. Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work |      |    |               |                |              |          |         |
|    | Gate side North to South                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Cum  | 1  | 13.26         | 0.75           | 0.9          | 8.95     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 12.32         | 0.75           | 0.9          | 8.32     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 29.7          | 0.75           | 0.9          | 20.05    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 27.75         | 0.75           | 0.9          | 18.73    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 4.85          | 0.75           | 0.9          | 3.27     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 21.56         | 0.75           | 0.9          | 14.55    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 16.9          | 0.75           | 0.9          | 11.41    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 12.22         | 0.75           | 0.9          | 8.25     |         |
|    | Nandini booth side                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      |    |               |                |              |          |         |
|    | East west                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 14.56         | 0.75           | 0.9          | 9.83     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 12.7          | 0.75           | 0.9          | 8.57     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 13.15         | 0.75           | 0.9          | 8.88     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 12.4          | 0.75           | 0.9          | 8.37     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 17.25         | 0.75           | 0.9          | 11.64    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 1.65          | 0.75           | 0.9          | 1.11     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 5.5           | 0.75           | 0.9          | 3.71     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 1.85          | 0.75           | 0.9          | 1.25     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 12.7          | 0.75           | 0.9          | 8.57     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 13.14         | 0.75           | 0.9          | 8.87     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 13.2          | 0.75           | 0.9          | 8.91     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 13.5          | 0.75           | 0.9          | 9.11     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 18.75         | 0.75           | 0.9          | 12.66    |         |
|    | strom water Drain side                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      |    |               |                |              |          |         |
|    | West to East                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      | 1  | 21.22         | 0.75           | 0.9          | 14.32    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 39.8          | 0.75           | 0.9          | 26.87    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 13.3          | 1.5            | 1.5          | 29.93    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 25.92         | 0.75           | 0.9          | 17.50    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 13.6          | 0.75           | 0.9          | 9.18     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 12.8          | 0.75           | 0.9          | 8.64     |         |
|    | For Chain link poles                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      |    |               |                |              |          |         |
|    | East side                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 20 | 0.5           | 0.5            | 0.6          | 3.000    |         |
|    | south side                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 26 | 0.5           | 0.5            | 0.6          | 3.900    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 12 | 0.5           | 0.5            | 0.6          | 1.800    |         |
|    | Path side                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 43 | 0.5           | 0.5            | 0.6          | 6.450    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 14 | 0.5           | 0.5            | 0.6          | 2.100    |         |
|    | East side                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 46 | 0.6           | 0.6            | 0.65         | 10.764   |         |
|    | North side                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 14 | 0.6           | 0.6            | 0.65         | 3.276    |         |
|    | Dust Bin                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      | 2  | 5.9           | 0.75           | 0.9          | 7.965    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2  | 4.25          | 0.75           | 0.9          | 5.738    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |    |               |                | Qty          | 346.436  |         |



*[Signature]*  
Contractor

Asst. Engineer

*[Signature]*  
Asst. Executive Engineer  
Project Division  
Yelahanka Zone

Executive Engineer

## BRUHAT BANGALORE MAHANAGARA PALIKE

Project Division, Yelahanka Zone

Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

## PRE-MEASUREMENT SHEET

17/08/2020

| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                         | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Remarks |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|------------|-------------|-----------|----------|---------|
| 30 | KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per |      |    |            |             |           |          |         |
|    | Gate side North to South                                                                                                                                                                                                                                                                                                                                                                                                            | Cum  |    |            |             |           |          |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 13.26      | 0.75        | 0.15      | 1.492    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 12.32      | 0.75        | 0.15      | 1.386    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 29.7       | 0.75        | 0.15      | 3.341    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 27.75      | 0.75        | 0.15      | 3.122    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 4.85       | 0.75        | 0.15      | 0.546    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 21.56      | 0.75        | 0.15      | 2.426    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 16.9       | 0.75        | 0.15      | 1.901    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 12.22      | 0.75        | 0.15      | 1.375    |         |
|    | Nandini booth side                                                                                                                                                                                                                                                                                                                                                                                                                  |      |    |            |             |           |          |         |
|    | East west                                                                                                                                                                                                                                                                                                                                                                                                                           |      | 1  | 14.56      | 0.75        | 0.15      | 1.638    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 12.7       | 0.75        | 0.15      | 1.429    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 13.15      | 0.75        | 0.15      | 1.479    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 12.4       | 0.75        | 0.15      | 1.395    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 17.25      | 0.75        | 0.15      | 1.941    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 1.65       | 0.75        | 0.15      | 0.186    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 5.5        | 0.75        | 0.15      | 0.619    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 1.85       | 0.75        | 0.15      | 0.208    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 12.7       | 0.75        | 0.15      | 1.429    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 13.14      | 0.75        | 0.15      | 1.478    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 13.2       | 0.75        | 0.15      | 1.485    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 13.5       | 0.75        | 0.15      | 1.519    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 18.75      | 0.75        | 0.15      | 2.109    |         |
|    | strom water Drain side                                                                                                                                                                                                                                                                                                                                                                                                              |      | 1  | 21.22      | 0.75        | 0.15      | 2.387    |         |
|    | West to East                                                                                                                                                                                                                                                                                                                                                                                                                        |      | 1  | 39.8       | 0.75        | 0.15      | 4.478    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 13.3       | 1.5         | 0.15      | 2.993    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 25.92      | 0.75        | 0.15      | 2.916    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 13.6       | 0.75        | 0.15      | 1.530    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 12.8       | 0.75        | 0.15      | 1.440    |         |
|    | Dust Bin                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 2  | 5.9        | 0.75        | 0.9       | 7.965    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 2  | 4.25       | 0.75        | 0.9       | 5.738    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |    |            |             | Qty       | 61.948   |         |



Contractor

Asst. Executive Engineer  
Project Division  
Yelahanka Zone  
BRMP Bangalore

Executive Engineer

**BRUHAT BANGALORE MAHANAGARA PALIKE**  
Project Division, Yelahanka Zone

**Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03**

PRE-MEASUREMENT SHEET

18/08/2020 to 16/09/2020

| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Remarks |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|------------|-------------|-----------|----------|---------|
| 31 | Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13.cement mortar 1:6 (using available stones) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work |      |    |            |             |           |          |         |
|    | Gate side North to South                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Cum  | 1  | 13.26      | 0.6         | 0.45      | 3.580    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 12.32      | 0.6         | 0.45      | 3.326    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 29.7       | 0.6         | 0.45      | 8.019    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 27.75      | 0.6         | 0.45      | 7.493    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 4.85       | 0.6         | 0.45      | 1.310    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 21.56      | 0.6         | 0.45      | 5.821    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 16.9       | 0.6         | 0.45      | 4.563    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 12.22      | 0.6         | 0.45      | 3.299    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 13.26      | 0.45        | 0.45      | 2.685    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 12.32      | 0.45        | 0.45      | 2.495    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 29.7       | 0.45        | 0.45      | 6.014    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 27.75      | 0.45        | 0.45      | 5.619    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 4.85       | 0.45        | 0.45      | 0.982    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 21.56      | 0.45        | 0.45      | 4.366    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 16.9       | 0.45        | 0.45      | 3.422    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 12.22      | 0.45        | 0.45      | 2.475    |         |
|    | Nandini booth side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 1  | 14.56      | 0.6         | 0.45      | 3.931    |         |
|    | East west                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      | 1  | 12.7       | 0.6         | 0.45      | 3.429    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 13.15      | 0.6         | 0.45      | 3.551    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 12.4       | 0.6         | 0.45      | 3.348    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 17.25      | 0.6         | 0.45      | 4.658    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 1.65       | 0.6         | 0.45      | 0.446    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 5.5        | 0.6         | 0.45      | 1.485    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 1.85       | 0.6         | 0.45      | 0.500    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 12.7       | 0.6         | 0.45      | 3.429    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 13.14      | 0.6         | 0.45      | 3.548    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 13.2       | 0.6         | 0.45      | 3.564    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 13.5       | 0.6         | 0.45      | 3.645    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 18.75      | 0.6         | 0.45      | 5.063    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 14.56      | 0.45        | 0.45      | 2.948    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 12.7       | 0.45        | 0.45      | 2.572    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 13.15      | 0.45        | 0.45      | 2.663    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 12.4       | 0.45        | 0.45      | 2.511    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 17.25      | 0.45        | 0.45      | 3.493    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 1.65       | 0.45        | 0.45      | 0.334    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 5.5        | 0.45        | 0.45      | 1.114    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 1.85       | 0.45        | 0.45      | 0.375    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 12.7       | 0.45        | 0.45      | 2.572    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 13.14      | 0.45        | 0.45      | 2.661    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 13.2       | 0.45        | 0.45      | 2.673    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 13.5       | 0.45        | 0.45      | 2.734    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 18.75      | 0.45        | 0.45      | 3.797    |         |
|    | strom water Drain side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |    |            |             |           |          |         |
|    | West to East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 1  | 21.22      | 0.6         | 0.45      | 5.729    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 39.8       | 0.6         | 0.45      | 10.746   |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 13.3       | 0.6         | 0.45      | 3.591    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 25.92      | 0.6         | 0.45      | 6.998    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 13.6       | 0.6         | 0.45      | 3.672    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 12.8       | 0.6         | 0.45      | 3.456    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 21.22      | 0.45        | 0.45      | 4.297    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 39.8       | 0.45        | 0.45      | 8.060    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 13.3       | 0.45        | 0.45      | 2.693    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 25.92      | 0.45        | 0.45      | 5.249    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 1  | 13.6       | 0.45        | 0.45      | 2.754    |         |

Asst. Executive Engineer

**Asst. Executive Engineer**  
Project Division

Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE  
Project Division, Yelahanka Zone

Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

PRE-MEASUREMENT SHEET

18/08/2020 to 16/09/2020

| SL | Particulars | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Remarks |
|----|-------------|------|----|------------|-------------|-----------|----------|---------|
|    |             |      | 1  | 12.8       | 0.45        | 0.45      | 2.592    |         |
|    | Dust Bin    |      | 2  | 5.9        | 0.6         | 0.45      | 3.186    |         |
|    |             |      | 2  | 5.9        | 0.45        | 0.45      | 2.390    |         |
|    |             |      | 2  | 4.25       | 0.6         | 0.45      | 2.295    |         |
|    |             |      | 2  | 4.25       | 0.45        | 0.45      | 1.721    |         |
|    |             |      |    |            |             |           | 205.939  |         |
|    | Deduction   |      | 98 | 0.45       | 0.45        | 0.6       | 11.907   |         |
|    |             |      |    |            |             | Qty       | 194.032  |         |



Asst. Executive Engineer

Asst. Executive Engineer

Project Division

Yelahanka Zone

BBMP, Bangalore - 52

Executive Engineer

**BRUHAT BANGALORE MAHANAGARA PALIKE**  
Project Division, Yelahanka Zone

Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

Measurement Sheet 27/10/2020

| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Remarks |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|------------|-------------|-----------|----------|---------|
| 29 | KSRRB 300-1. Earthwork excavation by manual means in hard soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5 m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work                                                                           |      |    |            |             |           |          |         |
|    | Qty Recorded EMB 1 Page No 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cu.m |    |            |             |           | 346.44   |         |
| 30 | KSRRB M2100-10. Providing and laying Plain cement concrete of mix 1:3:6 with OPC @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @0.89cum and fine aggregates @ 0.46cum, in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14 days including cost of all materials, labour, HOM curing, form works, scaffolding and centering complete as per specifications. MORTH Specification No. 2100 with all lead and lift , loading and unloading and allother incidental |      |    |            |             |           |          |         |
|    | Qty Recorded EMB 1 Page No 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cum  |    |            |             |           | 61.95    |         |
| 31 | Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar & stone hammerd dressed in courses not less than 20 cms high, bond stones at 2m. apart in each course including cost of materials, labour, HOM, curing complete as per specifications. KBS 5.1.13.cement mortar 1:6 (using available stones) with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the                                                             |      |    |            |             |           |          |         |
|    | Qty Recorded EMB 1 Page No 3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Cum  |    |            |             |           | 194.032  |         |



Contractor Asst.Engineer

Asst. Executive Engineer  
Project Division  
Yelahanka Zone  
BRMP Bangalore

Executive Engineer

BRUHAT BANGALORE MAHANAGARA PALIKE

Project Division, Yelahanka Zone

Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

Measurement Sheet

27/10/2020

| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Remarks |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|------------|-------------|-----------|----------|---------|
| 33 | KSRB 5-11 : Providing and constructing load bearing wall with having block density not less than 1800 kg/m <sup>3</sup> and having a minimum average compressive strength 5.00 N/mm <sup>2</sup> confirming to IS 2185 (Part 1):2005 and constructed with CM 1:4 , as per IS 2572:2005 including cost of all materials labour charegs, scaffolding, curing, hire charges of machineries etc., complete as per specifications. -KBS No.5.4 .-do- solid concrete blocks of size 400x150x200 mm with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work |      |    |            |             |           |          |         |
|    | Dust Bin                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sqm  | 2  | 5.25       |             | 1.2       | 12.600   |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 2  | 3.5        |             | 1.2       | 8.400    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |    |            |             | Qty       | 21.000   |         |



Asst. Executive Engineer

Project Division  
Yelahanka Zone

Executive Engineer

(3)

## BRUHAT BANGALORE MAHANAGARA PALIKE

Project Division, Yelahanka Zone

Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

Measurement Sheet

27/10/2020

| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Remarks |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|------------|-------------|-----------|----------|---------|
| 34 | Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.69 cum and fine aggregates @ 0.459cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, for coping. Including cost of all materials, labour, HOM, curing complete as per specifications. Specification No. KBS 4.1, 4.2 with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work |      |    |            |             |           |          |         |
|    | Gate side North to South                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |      |    |            |             |           |          |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 13.26      | 0.45        | 0.1       | 0.597    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 12.32      | 0.45        | 0.1       | 0.554    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 29.7       | 0.45        | 0.1       | 1.337    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 27.75      | 0.45        | 0.1       | 1.249    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 4.85       | 0.45        | 0.1       | 0.218    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 21.56      | 0.45        | 0.1       | 0.970    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 16.9       | 0.45        | 0.1       | 0.761    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 12.22      | 0.45        | 0.1       | 0.550    |         |
|    | Nandini booth side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |      | 1  | 14.56      | 0.45        | 0.1       | 0.655    |         |
|    | East west                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      | 1  | 12.7       | 0.45        | 0.1       | 0.572    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 13.15      | 0.45        | 0.1       | 0.592    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 12.4       | 0.45        | 0.1       | 0.558    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 17.25      | 0.45        | 0.1       | 0.776    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 1.65       | 0.45        | 0.1       | 0.074    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 5.5        | 0.45        | 0.1       | 0.248    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 1.85       | 0.45        | 0.1       | 0.083    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 12.7       | 0.45        | 0.1       | 0.572    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 13.14      | 0.45        | 0.1       | 0.591    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 13.2       | 0.45        | 0.1       | 0.594    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 13.5       | 0.45        | 0.1       | 0.608    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 18.75      | 0.45        | 0.1       | 0.844    |         |
|    | strom water Drain side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 1  | 21.22      | 0.45        | 0.1       | 0.955    |         |
|    | West to East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      | 1  | 39.8       | 0.45        | 0.1       | 1.791    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 13.3       | 0.45        | 0.1       | 0.599    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 25.92      | 0.45        | 0.1       | 1.166    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 13.6       | 0.45        | 0.1       | 0.612    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 12.8       | 0.45        | 0.1       | 0.576    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | cum. |    |            |             | Qty       | 18.700   | cum     |



Asst. Executive Engineer

Project Division  
Yelahanka Zone

Bangalore - 92

Executive Engineer

**BRUHAT BANGALORE MAHANAGARA PALIKE**  
Project Division, Yelahanka Zone

Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

Measurement Sheet

27/10/2020

| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                             | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Remarks |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|------------|-------------|-----------|----------|---------|
| 36 | KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specifications. Specification No. KBS 4.6.2 with all lead and lift , loading and unloading and all other incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work |      |    |            |             |           |          |         |
|    | Gate side North to South                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 2  | 13.26      |             | 0.1       | 2.652    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 12.32      |             | 0.1       | 2.464    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 29.7       |             | 0.1       | 5.94     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 27.75      |             | 0.1       | 5.55     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 4.85       |             | 0.1       | 0.97     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 21.56      |             | 0.1       | 4.312    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 16.9       |             | 0.1       | 3.38     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 12.22      |             | 0.1       | 2.444    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 14.56      |             | 0.1       | 2.912    |         |
|    | Nandini booth side                                                                                                                                                                                                                                                                                                                                                                                                                                      |      | 2  | 12.7       |             | 0.1       | 2.54     |         |
|    | East west                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2  | 13.15      |             | 0.1       | 2.63     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 12.4       |             | 0.1       | 2.48     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 17.25      |             | 0.1       | 3.45     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 1.65       |             | 0.1       | 0.33     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 5.5        |             | 0.1       | 1.1      |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 1.85       |             | 0.1       | 0.37     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 12.7       |             | 0.1       | 2.54     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 13.14      |             | 0.1       | 2.628    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 13.2       |             | 0.1       | 2.64     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 13.5       |             | 0.1       | 2.7      |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 18.75      |             | 0.1       | 3.75     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 21.22      |             | 0.1       | 4.244    |         |
|    | storm water Drain side                                                                                                                                                                                                                                                                                                                                                                                                                                  |      | 2  | 39.8       |             | 0.1       | 7.96     |         |
|    | West to East                                                                                                                                                                                                                                                                                                                                                                                                                                            |      | 2  | 13.3       |             | 0.1       | 2.66     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 25.92      |             | 0.1       | 5.184    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 13.6       |             | 0.1       | 2.72     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 2  | 12.8       |             | 0.1       | 2.56     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Sq/m |    |            |             | Qty       | 83.11    |         |



**Asst. Executive Engineer**  
Project Division  
Yelahanka Zone  
BBMP, Bangalore - 92

Executive Engineer

Contractor *[Signature]* Asst. Engineer *[Signature]*

## BRUHAT BANGALORE MAHANAGARA PALIKE

Project Division, Yelahanka Zone

Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

Measurment Sheet

27/10/2020

| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Remarks |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|------------|-------------|-----------|----------|---------|
| 37 | Providing and laying in position plain/Reinforced cement concrete M20 for sub-structure/Superstructure works, with cement @ 320 kgs, 20 mm & down size graded granite metal coarse aggregate @ 0.69 cum and fine aggregates @ 0.46 cum machine mixed with super plasticisers @ 3 lts confirming to IS 9103-2008, concrete laid in layers, well compacted and providing weep holes wherever necessary. with necessary scaffolding, form work etc., including cost of labour, HOM curing etc., complete. with all lead and lift , loading and unloading and all other incidental charges etc., complete as per specification and direction of the engineer-in-charge of the work |      |    |            |             |           |          |         |
|    | East side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      | 20 | 0.45       | 0.45        | 0.45      | 1.823    |         |
|    | South side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 26 | 0.45       | 0.45        | 0.45      | 2.369    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 12 | 0.45       | 0.45        | 0.45      | 1.094    |         |
|    | Path side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      | 43 | 0.45       | 0.45        | 0.45      | 3.918    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 14 | 0.45       | 0.45        | 0.45      | 1.276    |         |
|    | East side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      | 46 | 0.45       | 0.45        | 0.45      | 4.192    |         |
|    | North side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 14 | 0.45       | 0.45        | 0.45      | 1.276    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 98 | 0.45       | 0.45        | 0.6       | 11.907   |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Cum  |    |            |             | Qty       | 27.854   |         |



Asst. Executive Engineer  
Project Division  
Yelahanka Zone  
BRMP, Bangalore - 92

Executive Engineer

**BRUHAT BANGALORE MAHANAGARA PALIKE**  
Project Division, Yelahanka Zone

Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

Measurement Sheet

27/10/2020

| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Remarks |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|------------|-------------|-----------|----------|---------|
| 38 | Fabricating, providing and erecting in position of MS Hot Dip Galvanized Sq. Hallow Poles of 132 x 132 Heavy gauge of length 3000mm with MS. Hot dip galvanized grill work as per approved design and drawing of chief architect. Using 12x75mm galvanized flat for alround frame and 20mm x 20mm galvanized-forged design with square for for vertical al 150mm C/C as shown in the drawing including providing forged ornamental arrow head in top and bottom. The work is inclusive of throughing flat, square rods, placing welding all the joints, including grinding, finishing 2 coats of anticorrosive paint over one coat of metal primer. The rate is inclusive of all materials like MS. Hollow galvanized pipe, flats, forged square rods, cost of labour for all items of work cost painting, welding, cutting, grinding with all lead and lift as per |      |    |            |             |           |          |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Cum  |    |            |             |           |          |         |
|    | Gate side North to South                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Sq.m | 1  | 13.26      |             | 2.1       | 27.85    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 12.32      |             | 2.1       | 25.87    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 29.69      |             | 2.1       | 62.35    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 27.75      |             | 2.1       | 58.28    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 4.85       |             | 2.1       | 10.19    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 21.56      |             | 2.1       | 45.28    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 16.9       |             | 2.1       | 35.49    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 12.22      |             | 2.1       | 25.66    |         |
|    | Nandini booth side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |      | 1  | 14.56      |             | 2.1       | 30.58    |         |
|    | East west                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | 1  | 12.7       |             | 2.1       | 26.67    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 13.16      |             | 2.1       | 27.64    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 12.4       |             | 2.1       | 26.04    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 17.2       |             | 2.1       | 36.12    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 1.62       |             | 2.1       | 3.40     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 5.5        |             | 2.1       | 11.55    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 1.82       |             | 2.1       | 3.82     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 12.7       |             | 2.1       | 26.67    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 13.11      |             | 2.1       | 27.53    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 13.21      |             | 2.1       | 27.74    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 13.5       |             | 2.1       | 28.35    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 1  | 18.745     |             | 2.1       | 39.36    |         |
|    | strom water Drain side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      | 1  | 21         |             | 2.1       | 44.10    |         |
|    | West to East                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |      | 1  | 13         |             | 2.1       | 27.30    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |    |            |             |           | 677.83   | total   |
|    | Deduction for Gates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      | 1  | 4.85       |             | 2.85      | (-)13.82 |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |    |            |             |           | 664.01   |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      |    |            |             | Total Qty | 664      |         |

Executive Engineer  
Project Division  
Yelahanka Zone  
BBMP, Bangalore - 92

Items Initialed are  
Chd. & f.e.  
Date



Contractor  
Asst. Engineer

Asst. Engineer

Asst. Executive Engineer

Executive Engineer

**BRUHAT BANGALORE MAHANAGARA PALIKE**  
Project Division, Yelahanka Zone

Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

Measurement Sheet

27/10/2020

| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Unit | No | Length<br>(m) | Breadth<br>(m) | Depth<br>(m) | Quantity | Remarks |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|---------------|----------------|--------------|----------|---------|
| 39 | Fabricating, providing and erecting in position Hot dip galvanized Gate. Using 72 x 72 x 4.8mm Sq. G I Pipe Frame with top pipe bending in heavy duty hydraulic press with sand packing and hot bending to form double arch as per drawing profile, 20mm hot dip galvanized sq. rod for verticals at 150mm c/c, as shown in the drawing including providing hot do galvanized forged ornamental design in between rods and heads at top, middle and bottom. Intermediate supports of 75x12mm and 50X6mm arch bent to hot dip galvanized flats. the work is inclusive of throughing GI, flat GI Sqm. rods, placing, welding all the joints including grinding, finishing metal patty, painting two coats enamel painting. The rate is inclusive of all materials Like G I Sq. GI Pipe, GI Forged designs etc., heavy duty hinges are made out of 75mm sold sq. black assembled |      |    |               |                |              |          |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Sq.m | 1  | 1.4           |                | 2.4          | 3.36     |         |
|    | Gate East side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      |    |               |                |              | 3.15     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |    |               |                | Tender Qty   | 3.15     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |    |               |                | Qty          | 3.15     |         |



Contractor

Asst. Engineer

**Asst. Executive Engineer**  
Project Division  
Yelahanka Zone  
BE MP, Bangalore - 92

Executive Engineer

**BRUHAT BANGALORE MAHANAGARA PALIKE**  
Project Division, Yelahanka Zone

Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No:03

Measurment Sheet

27/10/2020

| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Remarks |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|------------|-------------|-----------|----------|---------|
| 40 | Providing chain link fencing 50mm size of 8 guage properly stretched between existing rectangular poles and fixed with suitable bolts & nuts, the free ends shall be welded to the pole and block pipe at top and bottom as required including cost of all materials, labour, lead and lifts and as per the directions of the Engineer-in-charge of work including two coats of approved quality paint over one coat of shop paint with ail lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and |      |    |            |             |           |          |         |
|    | East side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | SqM  | 1  | 30         |             | 1.5       | 45.0     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | 1  | 15.9       |             | 1.5       | 23.9     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | 1  | 30         |             | 1.5       | 45.0     |         |
|    | South side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 28.96      |             | 1.5       | 43.4     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | 1  | 27         |             | 1.5       | 40.5     |         |
|    | South side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 30         |             | 1.5       | 45.0     |         |
|    | Path                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      | 1  | 30         |             | 1.5       | 45.0     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | 1  | 3          |             | 1.5       | 4.5      |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | 1  | 30         |             | 1.5       | 45.0     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | 1  | 10.3       |             | 1.5       | 15.5     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | 1  | 30         |             | 1.5       | 45.0     |         |
|    | Path court side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | 1  | 5.3        |             | 1.5       | 8.0      |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | 1  | 30         |             | 1.5       | 45.0     |         |
|    | East side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |      | 1  | 30         |             | 1.5       | 45.0     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | 1  | 18.5       |             | 1.5       | 27.8     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | 1  | 30         |             | 1.5       | 45.0     |         |
|    | North side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |      | 1  | 1.6        |             | 1.5       | 2.4      |         |
|    | Basket                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 2  | 34.5       |             | 3.5       | 241.5    |         |
|    | Basket ball Court                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 1  | 24.2       |             | 3.5       | 84.7     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | 1  | 6          |             | 3.5       | 21.0     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | 1  | 18         |             | 3.5       | 63.0     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      | 1  | 3          |             | 1.5       | 67.5     |         |
|    | Missed bits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 15 |            |             |           | 1048.5   |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |      |    |            |             | Qty       | 1048.5   |         |



Contractor

Asst. Engineer

**Asst. Executive Engineer**  
Project Division  
Yelahanka Zone  
BMP Bangalore - 92

Executive Engi

**BRUHAT BANGALORE MAHANAGARA PALIKE**  
Project Division, Yelahanka Zone

Name of Work: **Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03**

Measurement Sheet

27/10/2020

| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Remarks |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|------------|-------------|-----------|----------|---------|
| 41 | Supplying and fixing M.S. Rectangular poles made out of 2 equal angles of 65x65x6 mm welded together and fixed in CC (1:2:4) WITH 2 NOS 16mm dia M.S. hold fast rods each of length 25 cms. Including cost of all materials cutting, bending scaffolding wherever necessary, nicely finishing the welded joints with all lead lifts and as per the directions of the Engineerin - charge of the work and including providing 2 coats of approved quality paint over one coat of shop painting ( excluding cost of earthwork and concrete) with all |      |    |            |             |           |          |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 20 | 2          |             |           | 40       |         |
|    | East side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | 26 | 2          |             |           | 52       |         |
|    | South side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 12 | 2          |             |           | 24       |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 43 | 2          |             |           | 86       |         |
|    | Path side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | 14 | 2          |             |           | 28       |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |    |            |             |           |          |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 32 | 2          |             |           | 64       |         |
|    | East side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | 13 | 2          |             |           | 26       |         |
|    | North side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |      | 48 | 4          |             |           | 192      |         |
|    | court                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      |    |            |             |           |          |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      |    |            |             | Qty       | 512      | meters  |



**Asst. Executive Engineer**  
Project Division  
Yelahanka Zone  
BBMP, Bangalore - 92

Executive Engineer

**BRUHAT BANGALORE MAHANAGARA PALIKE**  
Project Division, Yelahanka Zone

**Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03**

Measurement Sheet

27/10/2020

| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Unit | No | Length<br>(m) | Breadth<br>(m) | Depth<br>(m) | Quantity | Remarks |
|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|---------------|----------------|--------------|----------|---------|
| 43 | Providing and fixing M.S. Block pipe of 38mm dia, of heavy guage of 14 including removing the bends, cutting the pipe, and fixing pipe in between the existing two verticle poles (M.S. rectangular poles) and spot welding the chain link with M.S. block pipe including cost of all materials wastage in cutting, and scaffolding wherever necessary with all lead and lift as directed by the Engineer-in-charge of work etc., complete including two coats of approved quality paint over one coat of shop paint. with all lead and lift , loading and unloading and allother incidental charges etc., complete as per specification and direction of the |      |    |               |                |              |          |         |
|    | East side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Rmt  | 2  | 30            |                |              | 60.0     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2  | 15.9          |                |              | 31.8     |         |
|    | South side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 2  | 30            |                |              | 60.0     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2  | 28.96         |                |              | 57.9     |         |
|    | South side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 2  | 27            |                |              | 54.0     |         |
|    | Path                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |      | 2  | 30            |                |              | 60.0     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2  | 30            |                |              | 60.0     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2  | 3             |                |              | 6.0      |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2  | 30            |                |              | 60.0     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2  | 10.3          |                |              | 20.6     |         |
|    | Path court side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2  | 30            |                |              | 60.0     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2  | 5.3           |                |              | 10.6     |         |
|    | East side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |      | 2  | 30            |                |              | 60.0     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2  | 30            |                |              | 60.0     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2  | 18.5          |                |              | 37.0     |         |
|    | North side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |      | 2  | 30            |                |              | 60.0     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 2  | 1.6           |                |              | 3.2      |         |
|    | Baket ball Court                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |      | 10 | 34.5          |                |              | 345.0    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 5  | 24.2          |                |              | 121.0    |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 5  | 6             |                |              | 30.0     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      | 5  | 18            |                |              | 90.0     |         |
|    | Missed bits                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      | 3  | 5             |                |              | 15.0     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |    |               |                |              | 1362.1   |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |      |    |               |                | Qty          | 1362.1   |         |



Contractor

Asst. Engineer

**Asst. Executive Engineer**  
Project Division  
Yelahanka Zone  
BMP Bangalore - 02

Executive Engineer

(11)

## BRUHAT BANGALORE MAHANAGARA PALIKE

Project Division, Yelahanka Zone

Name of Work: Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

Measurement Sheet

27/10/2020

| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Unit | No | Length (m) | Breadth (m) | Depth (m) | Quantity | Remarks |
|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|------------|-------------|-----------|----------|---------|
| 59 | LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name |      |    |            |             |           |          |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |    |            | Qty         | 25        | 25.00    | note    |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |    |            |             |           |          |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |      |    |            |             |           |          |         |



Asst. Executive Engineer  
Project Division  
Yelahanka Zone  
BMP Bangalore - 92

Executive Engineer

**BRUHAT BANGALORE MAHANAGARA PALIKE**  
Project Division, Yelahanka Zone

**Name of Work:** Developmental works to Vivekananda Park , Providing Cobble stones and fixing children play equipment in Vishwanagar park in Ward No.03

Measurment Sheet

27/10/2020.

| SL | Particulars                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Unit | No | Length<br>(m) | Breadth<br>(m) | Depth<br>(m) | Quantity | Remarks |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|---------------|----------------|--------------|----------|---------|
| 60 | LED Street light. Supply of LED Streetlight with pressure die cast aluminum housing body with optimal heat sink for better thermal dissipation. Diffuser with Injection moulded & is made of polycarbonate material with high transmission index, delivering superior light output. Rated life Burning Hrs. 50000 hr. @ Lumen Maintenance of 70%. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains Current should not be greater than 0.1A to 0.7A & Surge Protection- Min 4 KV along with Over voltage/Overload, short circuit/ miswiring protection. Compatible for pole mounting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Over load & Short circuit protection ensures reliable operation in spite of problem in output side. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with .....W System Power consumption. LED Efficiency>130lm/w at 1W & Fixture Efficiency >80lm/w with nominal CRI 75+. housing with supplier word mark / name shall be engraved / Embossing on the die cast housing / body part. . Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government | No   | 6  |               |                |              | 6.00     |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |    |               |                |              |          |         |
|    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |      |    |               |                |              |          |         |



*Handwritten signature and initials in green ink.*

**Asst. Executive Engineer**  
Project Division  
Yelahanka Zone  
BBMP Bangalore - 92

Executive Engineer

*Handwritten signatures and initials at the bottom left.*